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EXAMINER

LAI, MICHAEL C

ART UNIT

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NOTIFICATION DATE

DELIVERY MODE

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@dcpatent.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/688,430	<b>Applicant(s)</b> AALTONEN ET AL.	
	<b>Examiner</b> MICHAEL C. LAI	<b>Art Unit</b> 2457	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 12/09/2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6,8-25,27-42,44-59 and 61-71 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6,8-25,27-42,44-59 and 61-71 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

This office action is responsive to communications filed on 12/09/2009.

#### ***Response to Amendment***

The examiner has acknowledged no claim is amended.

#### ***Response to Arguments***

Applicant's arguments presented in the appeal brief dated 12/09/2009 is persuasive and, therefore, the finality of office action dated 1/06/2009 is **withdrawn and the prosecution is hereby reopened**. However, upon further consideration of the available prior arts, the claimed subject matter is rejected with the new grounds of rejection. This office action is made non-final.

#### ***Claim Objections***

1. Claim 33 is objected to because of the following informalities: In line 2, "a apparatus" should be "an apparatus".

#### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –  
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claims 11-16, 18-19, 29-34, 36, 46-51, 53, 63-68, and 70 are rejected under 35 U.S.C. 102(b) as being anticipated by Hendricks et al. (US 5,798,785, hereinafter Hendricks).**
4. Regarding claim 11, Hendricks discloses a system comprising:

a terminal configured to access at least one piece of content from a memory (220 Set top terminal FIG. 3 and col. 9 line 21 through col. 10 line 62 ) , wherein the at least one piece of content comprises at least one piece of pre-broadcast content (FIG. 14 and col. 38, lines 24-28, preview menu. Note that page 26, lines 4-11 of the original specification indicated previews are one of pre-broadcast content) related to broadcast content, the pre-broadcast content including the broadcast content, wherein the terminal is also configured to store, into a content usage log, at least one content usage statistic relating to the terminal accessing the at least one piece of pre-broadcast content from the memory (col. 9 line 21 through col. 10 line 62, local storage); and

a destination configured to receive the content usage log including the at least one content usage statistic (202 Operations Center Fig. 3 and col. 9, lines 11-19).

5. Regarding claim 12, Hendricks further discloses wherein the terminal is configured to receive at least one piece of content in accordance with a broadband data broadcast technique (col. 9, lines 50-59), and wherein the at least one piece of content comprises at least one piece of content for at least one channel comprising at least one of a television, radio or data channel (col. 10, lines 25-31).

6. Regarding claim 13, Hendricks further discloses wherein the terminal is configured to send the content usage log to the destination when a return channel between the terminal and the destination is at least one of available or established (col. 13 line 56 through col. 14 line 6. Note that cable headend 208 communicates with operation center 202 or statistical and billing sites).

7. Regarding claim 14, Hendricks further discloses wherein the terminal is configured to store at least one content usage statistic further comprising at least one statistic related to at least one of the terminal and the at least one piece of content accessed from the memory (col. 10, lines 13-24).

8. Regarding claim 15, Hendricks further discloses wherein the terminal is configured to access at least one piece of content from a memory of a terminal in an offline manner (col. 9 line 21 through col. 10 line 62).

9. Regarding claim 16, Hendricks further discloses wherein the terminal is configured to repeatedly access at least one piece of content and storing at least one content usage statistic for a period of time before the broadcast content is broadcast, and wherein the terminal is configured to send the content usage log to the destination after the period of time and before the broadcast content is broadcast (col. 13 line 56 through col. 14 line 6; col. 15, lines 55-65).

10. Regarding claim 18, Hendricks further discloses wherein the destination (a viewing information server) is configured to receive the content usage log including the at least one content usage statistic such that a network entity is configured to send, to the terminal, at least one piece of content based upon the at least one content usage statistic (col. 29, lines 26-43).

11. Regarding claim 19, Hendricks further discloses wherein the terminal is configured to store at least one content usage statistic further comprising at least one of a type of the at least one piece of content accessed from the memory, a time the at least one piece of content was accessed from memory, information regarding used

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connection types, or information regarding available connection types comprising at least one of a signal strength, capacity or utilization rate of the connection types (col. 7, lines 15-29, capacity improvement).

12. Regarding claim 29, Hendricks discloses an apparatus comprising:

a controller configured to access at least one piece of content from a memory (220 Set top terminal FIG. 3 and col. 9 line 21 through col. 10 line 62), the at least one piece of content comprising at least one piece of pre-broadcast content related to broadcast content, the pre-broadcast content including the broadcast content (FIG. 14 and col. 38, lines 24-28, preview menu. Note that page 26, lines 4-11 of the original specification indicated previews are one of pre-broadcast content),

wherein the controller is also configured to store, into a content usage log (col. 9 line 21 through col. 10 line 62), at least one content usage statistic relating to accessing the at least one piece of pre-broadcast content from the memory, and wherein the controller is configured to send the content usage log to a destination before the broadcast content is broadcast (202 Operations Center Fig. 3 and col. 9, lines 11-19).

13. Regarding claim 30, Hendricks further discloses wherein the apparatus is configured to receive at least one piece of content in accordance with a broadband data broadcast technique (col. 9, lines 50-59), and wherein the at least one piece of content comprises at least one piece of content for at least one channel comprising at least one of a television, radio or data channel (col. 10, lines 25-31).

14. Regarding claim 31, Hendricks further discloses wherein the apparatus is configured to send the content usage log to the destination when a return channel

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between the apparatus and the destination is at least one of available or established (col. 13 line 56 through col. 14 line 6. Note that cable headend 208 communicates with operation center 202 or statistical and billing sites).

15. Regarding claim 32, Hendricks further discloses wherein the controller is configured to store at least one content usage statistic further comprising at least one statistic related to at least one of the apparatus and the at least one piece of content accessed from the memory of the apparatus(col. 10, lines 13-24).

16. Regarding claim 33, Hendricks further discloses wherein the controller is configured to access at least one piece of content from a memory of a apparatus in an offline manner (col. 9 line 21 through col. 10 line 62).

17. Regarding claim 34, Hendricks further discloses wherein the controller is configured to repeatedly access at least one piece of content and repeatedly store at least one content usage statistic for a period of time before the broadcast content is broadcast, and wherein the terminal is configured to send the content usage log to a destination after the period of time and before the broadcast content is broadcast (col. 13 line 56 through col. 14 line 6; col. 15, lines 55-65).

18. Regarding claim 36, Hendricks further discloses wherein the controller is configured to store at least one content usage statistic further comprising at least one of a type of the at least one piece of content accessed from the memory, a time the at least one piece of content was accessed from memory, information regarding used connection types, or information regarding available connection types comprising at

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least one of a signal strength, capacity or utilization rate of the connection types (col. 7, lines 15-29, capacity improvement).

19. Claims 46-51, 53 are of the same scope as claims 11-16, and 19 respectively.

They are rejected for the same reasons as for claims 11-16, and 19 respectively.

20. Claims 63-68, 70 are of the same scope as claims 11-16, and 19 respectively.

They are rejected for the same reasons as for claims 11-16, and 19 respectively.

***Claim Rejections - 35 USC § 103***

21. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**22. Claims 1-4, 6, 8-10, 20-23, 25, 27-28, 37-40, 42, 44-45, 54-57, 59, 61-62, and 71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hendricks et al. (US 5,798,785, hereinafter Hendricks) in view of Hale et al. (US 6,785,539, hereinafter Hale).**

23. Regarding claim 1, Hendricks discloses a system comprising:

a terminal configured to access at least one piece of content from a memory of the terminal in an offline manner after receipt of the at least one piece of content, wherein the terminal is also configured to store, into a content usage log, at least one content usage statistic relating to the access of the at least one piece of content from memory, and wherein at least one content usage statistic comprises the location of the



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terminal (220 Set top terminal FIG. 3 and col. 9 line 21 through col. 10 line 62; address field 924 FIG. 7b ; col. 15, lines 55-65); and

a destination configured to receive the content usage log including the at least one content usage statistic (202 Operations Center Fig. 3 and col. 9, lines 11-19).

Hendricks discloses substantially all the limitations in claim 1, but fails to teach the access of the at least one piece of content being a trigger to the terminal to obtain its location, the terminal being configured to obtain its location in response to the trigger. However, Hale teaches a portable device used to automatically store usage patterns. The stored information may be used for tracking user preferences, may be used to infer user location and direction. The information gathered from many devices may be collected in a database. The data may be analyzed to determine group behavior, identify popular locations (col. 10, lines 35-67). It would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Hale's teaching into Hendricks' system for the purpose of tracking locations of terminals by triggering terminals to obtain their locations when access a piece of content, thereby collecting useful usage patterns and location related information.

24. Regarding claim 2, Hendricks further discloses wherein the terminal is configured to receive at least one piece of content in accordance with a broadband data broadcast technique (col. 9, lines 50-59), and wherein the at least one piece of content comprises at least one piece of content for at least one channel comprising at least one of a television, radio or data channel (col. 10, lines 25-31).

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25. Regarding claim 3, Hendricks further discloses wherein the terminal is configured to send the content usage log to the destination when a return channel between the terminal and the destination is at least one of available or established (col. 13 line 56 through col. 14 line 6. Note that cable headend 208 communicates with operation center 202 or statistical and billing sites).

26. Regarding claim 4, Hendricks further discloses wherein the terminal is configured to access at least one piece of content comprising at least one piece of pre-broadcast content related to broadcast content, and wherein the terminal is configured to send the content usage log to the destination before the broadcast content is broadcast (FIG. 14 and col. 38, lines 24-28, preview menu. Note that page 26, lines 4-11 of the original specification indicated previews are one of pre-broadcast content; col. 9, lines 11-19).

27. Regarding claim 6, Hendricks further discloses wherein the terminal is configured to store at least one content usage statistic further comprising at least one statistic related to at least one of the terminal and the at least one piece of content accessed from the memory (col. 10, lines 13-24).

28. Regarding claim 8, Hendricks further discloses wherein the terminal is configured to repeatedly access at least one piece of content, each access being a trigger to the terminal to obtain its location the terminal being configured to obtain its location in response to each trigger and store at least one content usage statistic for at least one period of time, and wherein the terminal is further configured to send the content usage log to the destination after each period of time (col. 13 line 56 through col. 14 line 6; col. 15, lines 55-65).

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29. Regarding claim 9, Hendricks further discloses wherein the destination is configured to receive the content usage log including the at least one content usage statistic such that a network entity is configured to send, to the terminal, at least one piece of content based upon the at least one content usage statistic (col. 29, lines 26-43).

30. Regarding claim 10, Hendricks further discloses wherein the terminal is configured to store at least one content usage statistic further comprising at least one of a type of the at least one piece of content accessed from the memory, a time the at least one piece of content was accessed from memory, information regarding used connection types, or information regarding available connection types comprising at least one of a signal strength, capacity or utilization rate of the connection types (col. 7, lines 15-29, capacity improvement).

31. Regarding claim 20, Hendricks discloses an apparatus comprising:

a controller (microprocessor 602 FIG. 4) configured to access at least one piece of content from a memory in an offline manner after receipt of the at least one piece of content (col. 10, lines 13-24), and

wherein the controller is also configured to store, into a content usage log, at least one content usage statistic relating to the accessing of the at least one piece of content from memory, wherein at least one content usage statistic comprises the location of the apparatus (col. 9 line 21 through col. 10 line 62; address field 924 FIG. 7b, col. 15, lines 55-65;).

Hendricks discloses substantially all the limitations in claim 20, but fails to teach the access of the at least one piece of content being a trigger to the controller to obtain a location of the apparatus, the controller being configured to obtain the location of the apparatus in response to the trigger. However, Hale teaches a portable device used to automatically store usage patterns. The stored information may be used for tracking user preferences, may be used to infer user location and direction. The information gathered from many devices may be collected in a database. The data may be analyzed to determine group behavior, identify popular locations (col. 10, lines 35-67). It would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Hale's teaching into Hendricks' system for the purpose of tracking locations of apparatus by triggering apparatus to obtain their locations when access a piece of content, thereby collecting useful usage patterns and location related information.

32. Regarding claim 21, Hendricks further discloses wherein the apparatus is configured to receive at least one piece of content in accordance with a broadband data broadcast technique (col. 9, lines 50-59), and wherein the at least one piece of content comprises at least one piece of content for at least one channel comprising at least one of a television, radio or data channel (col. 10, lines 25-31).

33. Regarding claim 22, Hendricks further discloses wherein the apparatus is configured to send the content usage log to the destination when a return channel between the terminal and the destination is at least one of available or established (col.

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13 line 56 through col. 14 line 6. Note that cable headend 208 communicates with operation center 202 or statistical and billing sites).

34. Regarding claim 23, Hendricks further discloses wherein the apparatus is configured to receive and store at least one piece of content comprising at least one piece of pre-broadcast content related to broadcast content, and wherein the controller is configured to send the content usage log to a destination before the broadcast content is broadcast (FIG. 14 and col. 38, lines 24-28, preview menu. Note that page 26, lines 4-11 of the original specification indicated previews are one of pre-broadcast content; col. 9, lines 11-19).

35. Regarding claim 25, Hendricks further discloses wherein the controller is configured to store at least one content usage statistic further comprising at least one statistic related to at least one of the apparatus or the at least one piece of content accessed from the memory of the apparatus (col. 10, lines 13-24).

36. Regarding claim 27, Hendricks further discloses wherein the controller is configured to repeatedly access at least one piece of content, each access being a trigger to the controller to obtain the location of the apparatus, and the controller is configured to obtain the location of the apparatus in response to each trigger, and repeatedly store at least one content usage statistic for at least one period of time, and wherein the controller is further configured to send the content usage log to a destination after each period of time (col. 13 line 56 through col. 14 line 6; col. 15, lines 55-65).

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37. Regarding claim 28, Hendricks further discloses wherein the controller is configured to store at least one content usage statistic further comprising at least one of a type of the at least one piece of content accessed from the memory, a time the at least one piece of content was accessed from memory, information regarding used connection types, or information regarding available connection types comprising at least one of a signal strength, capacity or utilization rate of the connection types (col. 7, lines 15-29, capacity improvement).

38. Claims 37-39, 42, 44-45 are of the same scope as claims 1-3, 6, 8, and 10 respectively. They are rejected for the same reasons as for claims 1-3, 6, 8, and 10 respectively.

39. Claims 40 and 57 are of the same scope as claim 4. They are rejected for the same reasons as for claim 4.

40. Claims 54-56, 59, 61-62 are of the same scope as claims 1-3, 6, 8, and 10 respectively. They are rejected for the same reasons as for claims 1-3, 6, 8, and 10 respectively.

41. Regarding claim 71, Hendricks further discloses wherein the controller being configured to obtain the location of the apparatus in response to the trigger includes being configured to obtain a geographic location of the apparatus in response to the trigger (col. 16, lines 4-15).

**42. Claims 5, 24, 41, and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hendricks et al. (US 5,798,785, hereinafter Hendricks) in view**

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**of Hale et al. (US 6,785,539, hereinafter Hale), and further in view of Inoue et al. (US 5,826,168, hereinafter Inoue).**

43. Regarding claim 5, Hendricks and Hale fail to disclose the limitations. However, Inoue teaches wherein the at least one piece of pre-broadcast content comprises a set of at least one television program over a given time period for at least one television channel (FIG. 2B), wherein the terminal is configured to access the at least one piece of pre-broadcast content at least a predefined period of time before the broadcast content is broadcast (T1 FIG. 2B), and wherein the predefined period of time comprises the given time period (17 minutes FIG. 2B). It would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Inoue's teaching into Hendricks' and Hale's system for the purpose of accommodating the viewing schedule of a user by buffering the display of video signals transmitted by a broadcaster, thereby providing a true near video-on-demand service (col. 2, lines 47-50).

44. Regarding claim 24, Hendricks and Hale fail to disclose the limitations. However, Inoue teaches wherein the at least one piece of pre-broadcast content comprises a set of at least one television program over a given time period for at least one television channel (FIG. 2B), wherein the terminal is configured to access the at least one piece of pre-broadcast content at least a predefined period of time before the broadcast content is broadcast (T1 FIG. 2B), and wherein the predefined period of time comprises the given time period (17 minutes FIG. 2B). It would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Inoue's

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teaching into Hendricks' and Hale's system for the purpose of accommodating the viewing schedule of a user by buffering the display of video signals transmitted by a broadcaster, thereby providing a true near video-on-demand service (col. 2, lines 47-50).

45. Claims 41 and 58 are of the same scope as claim 5. They are rejected for the same reasons as for claim 5.

46. **Claims 17, 35, 52, and 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hendricks et al. (US 5,798,785, hereinafter Hendricks) in view of Inoue et al. (US 5,826,168, hereinafter Inoue).**

47. Regarding claim 17, Hendricks fails to disclose the limitations. However, Inoue teaches wherein the at least one piece of pre-broadcast content comprises a set of at least one television program over a given time period for at least one television channel (FIG. 2B), wherein the terminal is configured to access the at least one piece of pre-broadcast content at least a predefined period of time before the broadcast content is broadcast (T1 FIG. 2B), and wherein the predefined period of time comprises the given time period (17 minutes FIG. 2B). It would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Inoue's teaching into Hendricks' system for the purpose of accommodating the viewing schedule of a user by buffering the display of video signals transmitted by a broadcaster, thereby providing a true near video-on-demand service (col. 2, lines 47-50).

48. Regarding claim 35, Hendricks fails to disclose the limitations. However, Inoue teaches wherein the at least one piece of pre-broadcast content comprises a set of at



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least one television program over a given time period for at least one television channel (FIG. 2B), wherein the terminal is configured to access the at least one piece of pre-broadcast content at least a predefined period of time before the broadcast content is broadcast (T1 FIG. 2B), and wherein the predefined period of time comprises the given time period (17 minutes FIG. 2B). It would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate Inoue's teaching into Hendricks' system for the purpose of accommodating the viewing schedule of a user by buffering the display of video signals transmitted by a broadcaster, thereby providing a true near video-on-demand service (col. 2, lines 47-50).

49. Claims 52 and 69 are of the same scope as claim 17. They are rejected for the same reasons as for claim 17.

### ***Conclusion***

50. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is reminded that in amending in response to a rejection of claims, the patentable novelty must be clearly shown in view of the state of the art disclosed by the references cited and the objection made. Applicant must show how the amendments avoid such references and objections. See 37 CFR 1.111(c).

51. Garfinkle, US Patent Number 5,530,754, has taught a video-on-demand system providing so-called trailers or previews for certain of the video products, and lead-ins for the initial portions of certain products to provide a seamless lead in to program material ordered from the central station.

**Examiner's Note:** Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL C. LAI whose telephone number is (571)270-3236. The examiner can normally be reached on M-F 8:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael C. Lai  
12MAR2010

/ARIO ETIENNE/  
Supervisory Patent Examiner, Art Unit 2457